Descriptive Statistics and Analysis

Questions (1=not acceptable, 10=highly acceptable)	Clunker mean	mode	Sick mean	mode	Means Compared t-test result
1 equipment layout	5.6	7	6.4	7	t=-2.10 p<0.02
2 number of monitors	6	8	6.8	8	t=-1.70 p<0.04
3 height and length of the console	6.9	8	6.4	6	t= 0.89 p<0.19
4 storage space for the keyboards	6.7	8	6.2	7	t= 0.97 p<0.17
5 storage space for books and office supplies	5.5	10	5.5	10	t= -0.10 p<0.46
6 operate the pointing device	7.2	8	7	8	t= 0.60 p<0.27
7 operate the keyboard	7.3	8	7.4	7	t= -0.33 p<0.37
8 prefer the trackball to the mouse*	1.2	1	1.2	1	N/A
9 leg room	8.1	9	7.9	8	t= 0.67 p<0.25
10 width and depth of the work surface	7.5	8	7.1	8	t= 1.35 p<0.09
11 CISD placement/reach to the support module	5	2	5.1	8	t= 0.11 p<0.46
12 interference between the chair and console*	1.1	1	1.1	1	N/A
13 proposed task lighting			7.3	10	
14 on-screen OTV's vs. legacy hardware?			7.5	8	
*1=No, 2=Yes					

Allocation of Yes/No Responses

Questions	Response	
Clunker	**yes**	**no**
prefer the trackball to the mouse	16.7%	83.3%
interference between the chair and console	10.2%	89.8%
Slick	**yes**	**no**
prefer the trackball to the mouse	14.9%	85.1%
interference between the chair and console	8.5%	91.5%
Support	**yes**	**no**
interference between chair and console housing	10.4%	89.6%
Over All	**yes**	**no**
prefer flat panel display vs. CRT	89.4%	10.6%
is footrest needed	30.6%	63.4%

Slick

Critical Layout Deficiencies	# of complaints
• Monitor Placement	8
• Monitor Orientation	8
• OIS-D Panel Placement	7
• Cords Interference	7
• Keyboard Placement	6
• Safing Panel Placement	5

Slick

Critical Equipment Deficiencies # of complaints

- **Storage Space/Shelves**   **11**
- **I/O Devices**   **9**
- **Desk Space**   **5**
- **Console Too Tall**   **4**
- **Poor Flat Panel Quality**   **4**

Clunker

Critical Layout Deficiencies	# of complaints
• Cord Interference	13
• Monitor Placement	10
• OIS-D Panels	8
• Safing Panel	7
• Monitor Orientation	5
• Keyboard Placement	4

Clunker

Critical Equipment Deficiencies # of complaints

- **Storage Space/Shelves**   **10**
- **I/O Devices**   **9**
- **Desk Space**   **5**
- **# of OTV screens**   **3**

Support Module

Critical Layout Deficiencies   **# of complaints**

- **Cord Interference**   5

Support Module

Critical Equipment Deficiencies # of complaints

- **Storage Space/Shelves**   18
- **Desk Space**   9
- **Monitors***   3

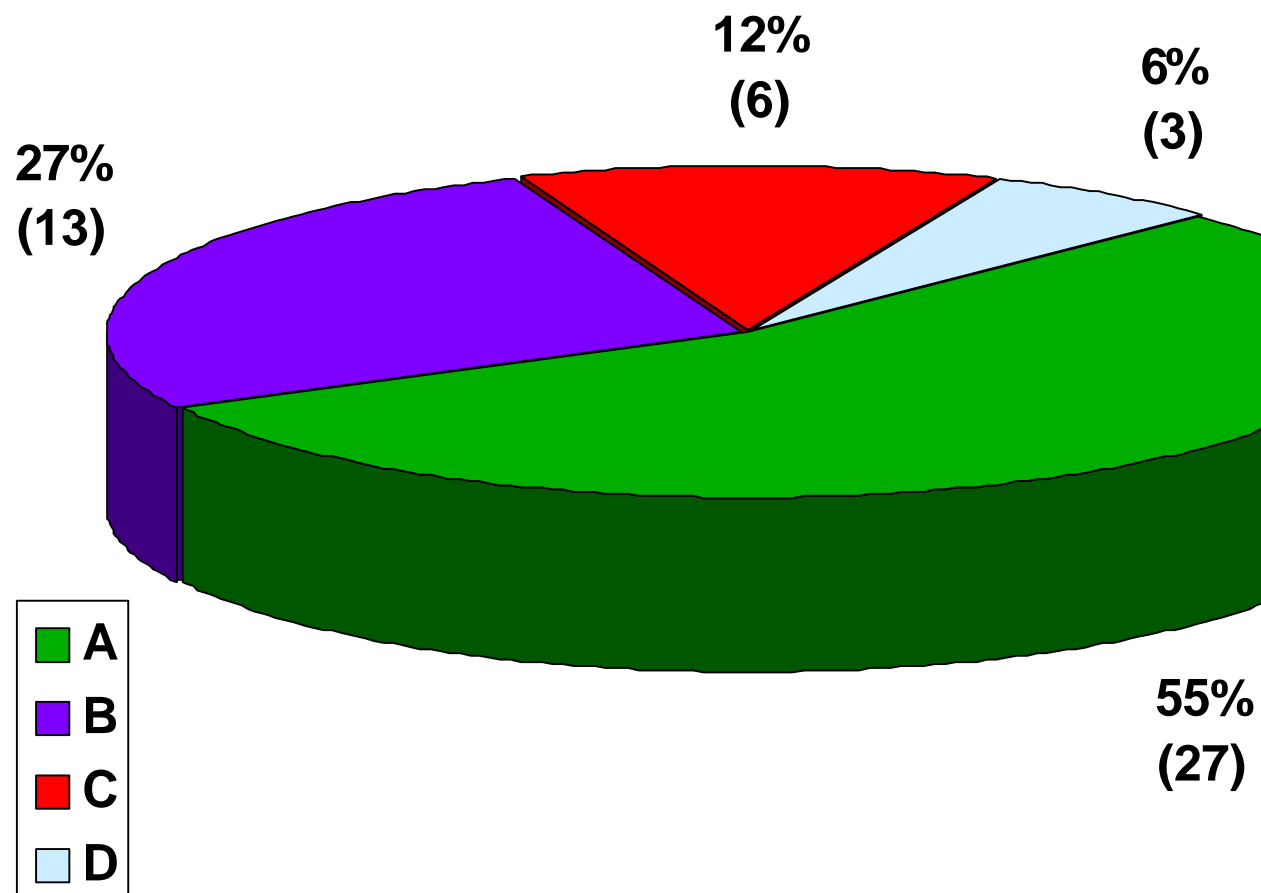*** comments indicated a desire for active monitors and OTV capability**

Chair Design

Priorities	# of comments
• Comfort	22
• Back Support	14
• High Back for Neck	13
• Adjustable Tilt	5
• Rollers	3

Chair Preferences

12%
(6)

6%
(3)

27%
(13)

55%
(27)

Legend:
- A
- B
- C
- D

OTV Keypad

Improvement Suggestions   **# of comments**

- **On Screen Controls**   **23**

Color Scheme

First Choice	# of responses	Second Choice	# of responses
5b	7	4b	8
5a	5	5b	7
4b	5	1b	3
1b	3	7-2b	3
7-1b	3		

Write-Ins

Blue/Grey	7

Missing Items

Old Console

- **Access to OIS-D Connection**   **6**
- **Horseshoe Shape**   **5**
- **Bookspace**   **5**

New Ideas

- **Storage Space**   **5**
- **User Camera Control**   **3**

General Comments

- **Add a Historical Data Stream**
- **Hard Wire Safing**
- **Simplify Sign-On Process**
- **Integrate Telephone with OIS-D Panel**
- **On-Screen OIS-D**
- **Keyboard Lock**
- **Move Power Switches**
- **Liked Task Lighting**
- **Support Module Facing Console**
- **Dedicated PCGoal Monitor**
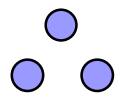- **System Designation Sign**
- **Headsets**

What Do We Have

- Limitations for each concept were identified
- Lots of ideas were generated
- Color scheme preference was identified
- Preliminary chair selection
- Non-performance preference for slick design

Where Do We Go From Here

- **Quantitative Design**
- **Task-Based Evaluation**

Designs should be based on REAL results - not on assumptions or preferences